

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (previously presented): A browser apparatus comprising:
information acquisition means for acquiring page data;
display means for displaying information;
shift direction input means for inputting a shift direction;
command input means for inputting a command; and
control means for displaying the page data acquired by said information acquisition means on said display means in response to a shift command indicating a shift direction input by said shift direction input means and to an operation command indicating an operation input by said command input means,

wherein said control means has a plurality of operation modes, and assigns different functions to said shift direction input means and said command input means depending on the mode of said browser apparatus as functions of manipulating the page displayed on said display means; and

wherein one of the plurality of operation modes includes a surf mode of selecting part of the page by moving a mouse cursor displayed on said display means in response to the shift command from said shift direction input means.

2. (original): The browser apparatus according to claim 1, wherein said control means switches the plurality of operation modes in response to the shift command from said shift direction input means or to the operation command from said command input means.

3. (previously presented): The browser apparatus according to claim 2, wherein the plurality of operation modes further includes:

a menu mode of selecting a menu item from a menu displayed on said display means in response to the shift command from said shift direction input means; and

a scrolling mode of scrolling the page displayed on said display means in vertical and horizontal directions in response to the shift command from said shift direction input means.

4. (original): The browser apparatus according to claim 2, wherein said shift direction input means comprises a cross key for outputting four types of shift commands by manipulating the cross key in four directions, top, bottom, left and right directions.

5. (original): The browser apparatus according to claim 2, wherein said command input means comprises an enter key for starting processing, and a back key for making transition of the operation mode.

6. (previously presented): The browser apparatus according to claim 1, wherein said browser apparatus is implemented on a vehicle navigation system.

7. (previously presented): The browser apparatus according to claim 1, wherein said page comprises a webpage.

8. (previously presented): The browser apparatus according to claim 5, wherein said enter key and said back key comprise separate keys on said command input means.

9. (new): The browser apparatus according to claim 1, wherein said mouse cursor is moved on said display in a continuous manner.

10. (new): The browser apparatus according to claim 3, wherein said command input means comprises an enter key for starting processing and a back key for making transition of the operation mode, and wherein in said menu mode, the enter key carries out a selected menu item and in said surf mode the enter key simulates a left-click of a mouse at a position of the mouse cursor.

11. (new): The browser apparatus according to claim 3, wherein said command input means comprises an enter key for starting processing and a back key for making transition of the operation mode, and wherein in said menu mode, the back key completes browser function, in said surf mode the back key transitions to menu mode, and in said scroll mode the back key transitions to surf mode.

12. (new): The browser apparatus according to claim 4, wherein the control means assigns different functions of manipulating the page displayed on the display means to said four directions.

13. (new): The browser apparatus of claim 5, wherein said back key transitions the operation mode regardless of a current operation mode.

14. (new): The browser apparatus of claim 12, wherein the cross key manipulated in the top direction in said surf mode moves the mouse cursor to an upward direction, and the cross key manipulated in the top direction in said scroll mode scrolls a whole page in a downward direction.

15. (new): The browser apparatus of claim 12, wherein the cross key manipulated in the bottom direction in said menu mode transitions to said surf mode, the cross key manipulated in the bottom direction in said surf mode moves the mouse cursor to a downward direction, and the cross key manipulated in the bottom direction in said scroll mode scrolls a whole page in an upward direction.

16. (new): The browser apparatus of claim 12, wherein the cross key manipulated in the left direction in said menu mode moves focus to a left-hand side menu item, the cross key manipulated in the left direction in said surf mode moves the mouse cursor leftward, and the cross key manipulated in the left direction in said scroll mode scrolls a whole page rightward.

17. (new): The browser apparatus of claim 12, wherein the cross key manipulated in the right direction in said menu mode moves focus to a right-hand side menu item, the cross key manipulated in the right direction in said surf mode moves the mouse cursor rightward, and the cross key manipulated in the right direction in said scroll mode scrolls a whole page leftward.

18. (new) A browser apparatus comprising:

an information acquisition unit that acquires page data;

a display unit that display information;

a shift direction input unit that inputs a shift direction;

a command input unit that inputs a command; and

a control unit that displays the page data acquired by said information acquisition unit on said display unit in response to a shift command indicating a shift direction input by said shift direction input unit and to an operation command indicating an operation input by said command input unit,

wherein said control unit has a plurality of operation modes, and assigns different functions to said shift direction input unit and said command input unit depending on the mode of said browser apparatus as functions of manipulating the page displayed on said display unit; and

wherein one of the plurality of operation modes includes a surf mode of selecting part of the page by moving a mouse cursor displayed on said display unit in response to the shift command from said shift direction input unit.